

Attorney Docket No.
013258.0172IN THE CLAIMS

Please cancel claims 18-21 without prejudice or disclaimer.

The following claims 1 and 6-17 are amended, as indicated in the marked-up version included with this response as Attachment A.

04 July 01 1. (Twice Amended) A dietary supplement composition for providing nutritional product saccharides in monomeric, oligomeric or polymeric and derivatized or underivatized form, which saccharides are essential components of glycoproteins in a mammal, said dietary supplement composition comprising nutritionally effective amounts of at least six saccharides, wherein said saccharides are selected from a first group of saccharides consisting of:

galactose, glucose, mannose, xylose and acetylated mannose; and

a second group of saccharides consisting of:

N-acetylneuraminic acid, fucose, N-acetylgalactosamine, N-acetylglucosamine, arabinose, glucuronic acid, galacturonic acid, iduronic acid and arabinogalactan;

wherein said composition comprises at least one saccharide selected from said first group of saccharides and at least one saccharide selected from said second group of saccharides.

05 July 01 6. (Twice Amended) A dietary supplement composition according to claim 1, wherein at least one of said saccharides is provided in oligomeric or polymeric form as found in at least one of:

gum tragacanth, guar gum, grain flour, rice flour, sugar cane, beet sugar, potato, milk, agar, algin, locust bean gum, psyllium, karaya gum, seed gums, Larch tree extract, aloe vera extract, gum ghatti, starch, cellulose, degraded cellulose, fructose, high fructose corn syrup, pectin, chitin, acacia, gum arabic, alginic acid, carrageenan, dextran, xanthan gum, chondroitin sulfate, sucrose, acetylated polymannose, maltose, glucan, lentinan, mannan, levan, hemi-cellulose, inulin, fructan, and lactose.

7. (Twice Amended) A dietary supplement composition according to claim 1, further comprising a nutritionally effective amount of dioscorea complex.

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C6
8. (Twice Amended) A dietary supplement composition according to claim 1, further comprising a nutritionally effective amount of a blend of freeze-dried and powdered raw fruits and vegetables.

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9. (Amended) A dietary supplement composition according to claim 8, further comprising nutritionally effective amounts of xanthines and herbal body-toning agents.

C8
10. (Amended) A dietary supplement composition according to claim 8, wherein said blend of freeze-dried and powdered raw fruits and vegetables comprises:
broccoli, brussel sprouts, cabbage, carrot, cauliflower, garlic, kale, onion, papaya, pineapple, tomato and turnip.

C9
11. (Amended) A dietary supplement composition according to claim 7, further comprising a nutritionally effective amount of beta sitosterol.

C10
12. (Twice Amended) A dietary supplement composition according to claim 1, further comprising a nutritionally effective amount of melatonin.

13. (Twice Amended) A dietary supplement composition according to claim 1, further comprising an effective amount of a saccharide bioabsorption aid.

C11
14. (Amended) A dietary supplement composition according to claim 13, wherein the bioabsorption aid comprises soy lecithin.

C12
15. (Twice Amended) A dietary supplement composition according to claim 1, further comprising nutritionally effective amounts of a dioscorea complex and a blend of freeze-dried and powdered raw fruits and vegetables.

C13
16. (Twice Amended) A dietary supplement composition according to claim 1, further comprising nutritionally effective amounts of non-toxic vitamins and minerals.

C14
17. (Amended) A dietary supplement composition according to claim 16, wherein:

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said vitamins comprise A, B1, B12, B2, B6, beta carotene, bioflavonoids, biotin, C, choline, D, E, folic acid, inositol, K, niacinamide, para-aminobenzoic acid, and pantothenic acid; and

said minerals comprise boron, calcium, copper, GTF chromium, iodine, iron, magnesium, manganese, molybdenum, potassium, selenium, silicon, vanadium and zinc.

Please add new claims 22-47 as follows:

22. A dietary supplement composition for providing nutritional product saccharides in monomeric, oligomeric or polymeric and derivatized or underivatized form, which saccharides are essential components of glycoproteins in a mammal, said dietary supplement composition comprising nutritionally effective amounts of at least six saccharides, wherein said saccharides are selected from a first group of saccharides consisting of:

galactose, glucose, mannose and xylose; and

a second group of saccharides consisting of:

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N-acetylneuraminic acid, fucose, N-acetylgalactosamine, N-acetylglucosamine, arabinose, glucuronic acid and iduronic acid;

wherein said composition comprises at least one saccharide selected from said first group of saccharides and at least one saccharide selected from said second group of saccharides.

23. A dietary supplement composition for the modification of behavior in alcohol dependent mammals, comprising nutritionally effective amounts of acetylated mannose, gum ghatti, gum tragacanth, glucosamine, corn starch and arabinogalactan.

24. A dietary supplement composition for reducing side-effects in mammals receiving biologically effective agents that cause such side-effects, comprising nutritionally effective amounts of acetylated mannose, gum ghatti, gum tragacanth, glucosamine, corn starch and arabinogalactan.

25. A dietary supplement composition according to claim 24, wherein said dietary supplement composition reduces the undesired side-effects of central nervous system drugs.

26. A dietary supplement composition according to claim 24, wherein said dietary supplement composition reduces the side-effects of methylphenidate in a mammal suffering from attention-deficit hyperactivity disorder.

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said vitamins comprise A, B1, B12, B2, B6, beta carotene, bioflavonoids, biotin, C, choline, D, E, folic acid, inositol, K, niacinamide, para-aminobenzoic acid, and pantothenic acid; and
said minerals comprise boron, calcium, copper, GTF chromium, iodine, iron, magnesium, manganese, molybdenum, potassium, selenium, silicon, vanadium and zinc.

C15

Please add new claims 22-47 as follows:

22. A dietary supplement composition for providing nutritional product saccharides in monomeric, oligomeric or polymeric and derivatized or underivatized form, which saccharides are essential components of glycoproteins in a mammal, said dietary supplement composition comprising nutritionally effective amounts of at least six saccharides, wherein said saccharides are selected from a first group of saccharides consisting of:

galactose, glucose, mannose and xylose; and

a second group of saccharides consisting of:

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N-acetylneuraminic acid, fucose, N-acetylgalactosamine, N-acetylglucosamine, arabinose, glucuronic acid and iduronic acid;

wherein said composition comprises at least one saccharide selected from said first group of saccharides and at least one saccharide selected from said second group of saccharides.

23. A dietary supplement composition for the modification of behavior in alcohol dependent mammals, comprising nutritionally effective amounts of acetylated mannose, gum ghatti, gum tragacanth, glucosamine, corn starch and arabinogalactan.

24. A dietary supplement composition for reducing side-effects in mammals receiving biologically effective agents that cause such side-effects, comprising nutritionally effective amounts of acetylated mannose, gum ghatti, gum tragacanth, glucosamine, corn starch and arabinogalactan.

25. A dietary supplement composition according to claim 24, wherein said dietary supplement composition reduces the undesired side-effects of central nervous system drugs.

26. A dietary supplement composition according to claim 24, wherein said dietary supplement composition reduces the side-effects of methylphenidate in a mammal suffering from attention-deficit hyperactivity disorder.

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27. A dietary supplement composition according to claim 7, wherein said composition comprises from about 50 to about 99.9999 weight percent of said saccharides and from about 0.0001 to about 50 weight percent of said dioscorea complex.

28. A dietary supplement composition according to claim 7, wherein said composition comprises from about 30 to about 99.99 weight percent of said saccharides and from about 0.01 to about 70 weight percent of said dioscorea complex.

29. A dietary supplement composition according to claim 28, wherein said composition comprises from about 60 to about 90 weight percent of said saccharides and from about 10 to about 40 weight percent of said dioscorea complex.

30. A dietary supplement composition according to claim 29, wherein said composition comprises about 80 weight percent of said saccharides and about 20 weight percent of said dioscorea complex.

31. A dietary supplement composition according to claim 8, wherein said composition comprises from about 0.01 to about 99.999 of said saccharides and from about 0.001 to 99.99 of said blend of freeze-dried and powdered raw fruits and vegetables.

32. A dietary supplement composition according to claim 31, wherein said composition comprises from about 1 to about 80 weight percent of said saccharides and from about 20 to about 99 weight percent of said blend of freeze-dried and powdered raw fruits and vegetables.

33. A dietary supplement composition according to claim 32, wherein said composition comprises from about 5 to about 50 weight percent of said saccharides and from about 50 to about 95 weight percent of said blend of freeze-dried and powdered raw fruits and vegetables.

34. A dietary supplement composition according to claim 1, further comprising an herbal or plant extract of broccoli, brussel sprouts, cabbage, carrot, cauliflower, garlic, kale, onion, papaya, pineapple, tomato, asparagus, mushroom, parsnip, radish and turnip.

35. A dietary supplement composition according to claim 34, wherein said composition comprises from about 25 to about 99.999 weight percent of said saccharides and from about 0.001 to about 75 weight percent of said herbal or plant extract.

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36. A dietary supplement composition according to claim 35, wherein said composition comprises from about 10 to about 90 weight percent of said saccharides and from about 10 to about 90 weight percent of said herbal or plant extract.

37. A dietary supplement composition for providing nutritional product saccharides, which saccharides are essential components of glycoproteins in a mammal, said dietary supplement comprising nutritionally effective amounts of tragacanth gum, guar gum and rice flour.

38. A dietary supplement composition according to claim 37, wherein said composition further comprises a flowing agent and a lubricant.

39. A dietary supplement composition according to claim 37, wherein said tragacanth gum, guar gum and rice flour are present in said composition in a weight ratio of 10:1:20.

40. A dietary supplement composition for providing nutritional product saccharides, which saccharides are essential components of glycoproteins in a mammal, said dietary supplement comprising nutritionally effective amounts of galactose, glucose, mannose, N-acetylneuraminic acid, fucose, N-acetylgalactosamine, N-acetylglucosamine and xylose.

41. A dietary supplement composition according to claim 40, wherein said composition further comprises rice flour.

42. A dietary supplement composition according to claim 41, wherein said composition further comprises a flowing agent and a lubricant.

43. A dietary supplement composition according to claim 41, wherein said galactose, glucose, mannose, N-acetylneuraminic acid, fucose, N-acetylgalactosamine, N-acetylglucosamine, xylose and rice flour are present in said composition in a weight ratio of 1:1:1:1:1:1:1:1:8.

44. A dietary supplement composition for providing nutritional product saccharides, which saccharides are essential components of glycoproteins in a mammal, said dietary supplement comprising nutritionally effective amounts of tragacanth gum, gum ghatti, arabinogalactan and aloe vera extract.

45. A dietary supplement composition according to claim 44, wherein said composition comprises 20 percent by weight of said tragacanth gum, 20 percent by weight of